



BANDWIDTH MANAGEMENT TECHNIQUES FOR DELIVERY OF INTERACTIVE PROGRAM GUIDE

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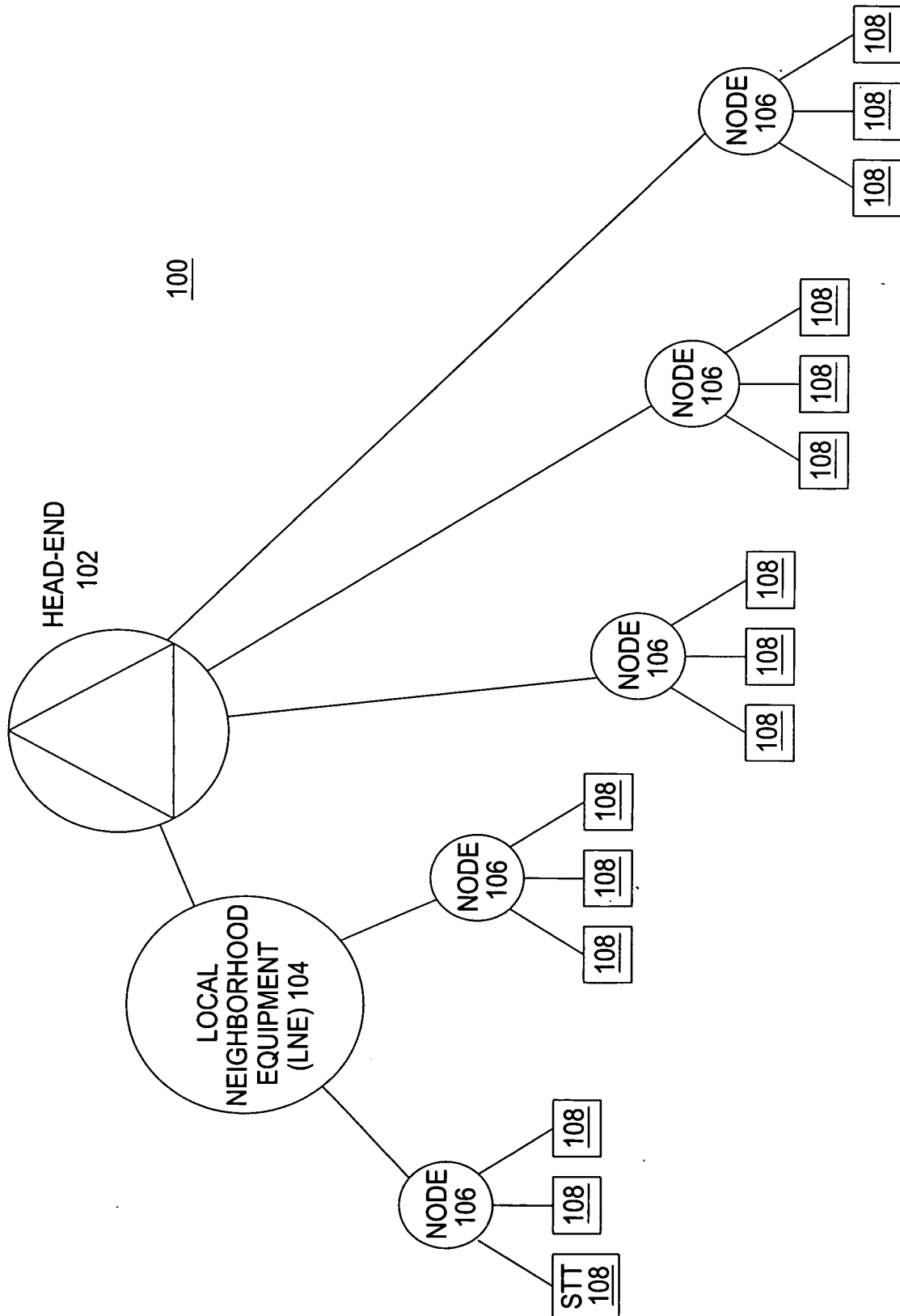
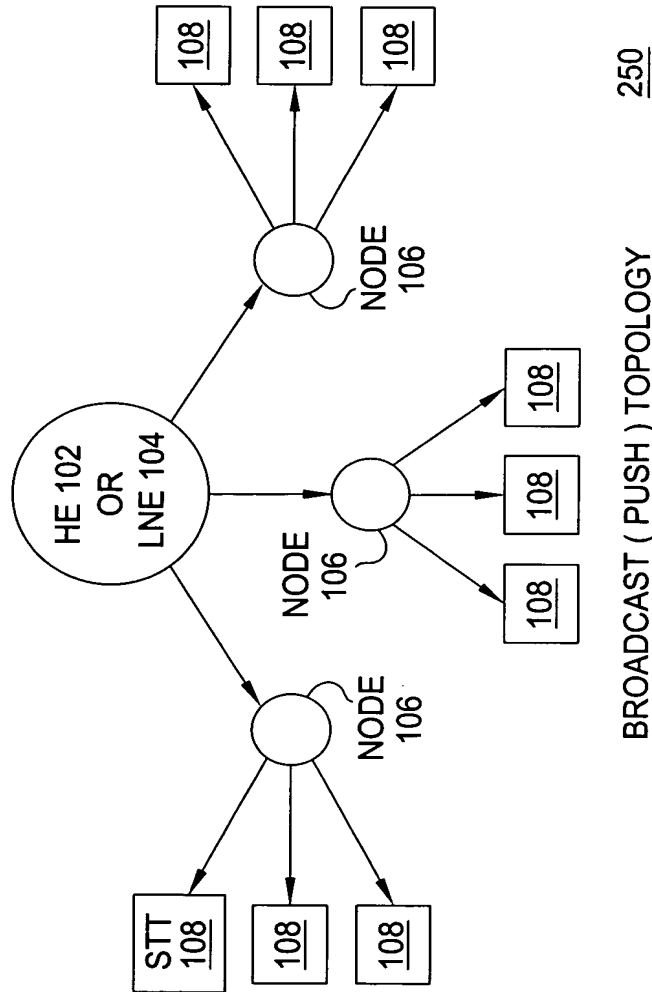
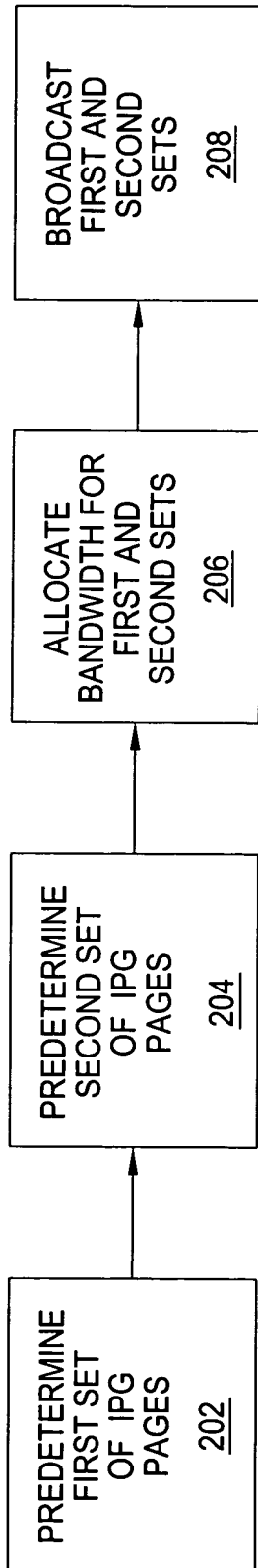
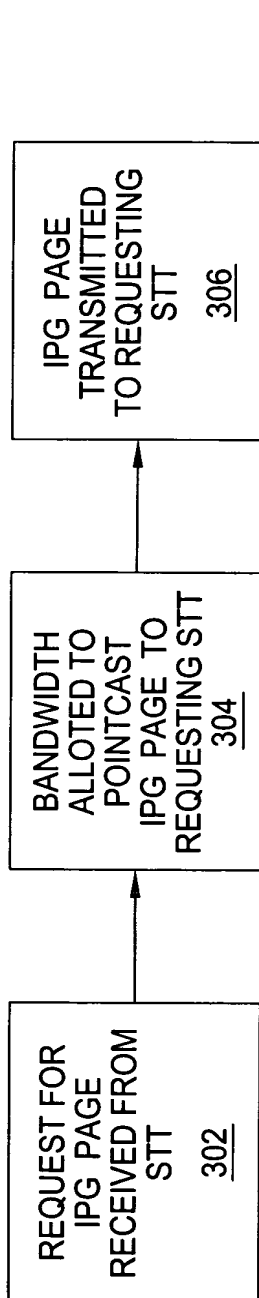


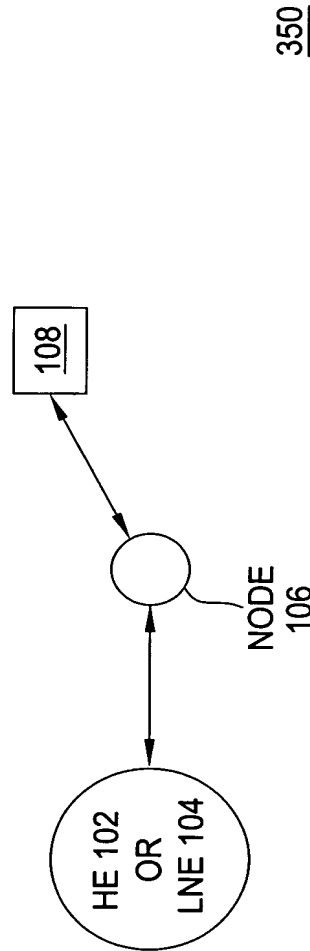
FIG. 1





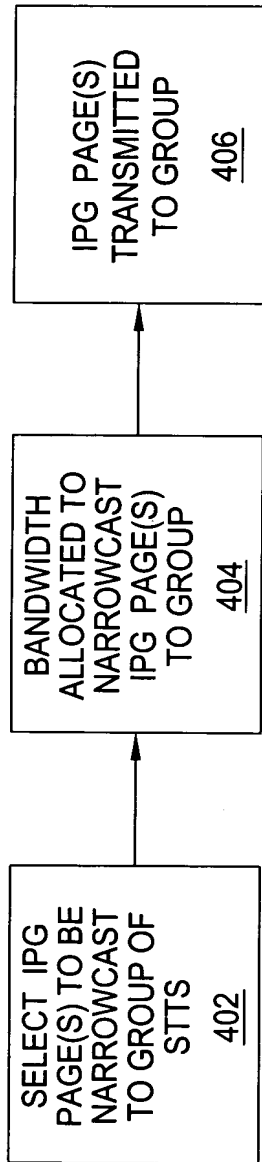
POINTCAST ( PULL OR DEMANDCAST ) METHOD

FIG. 3A



POINTCAST ( PULL OR DEMANDCAST ) TOPOLOGY

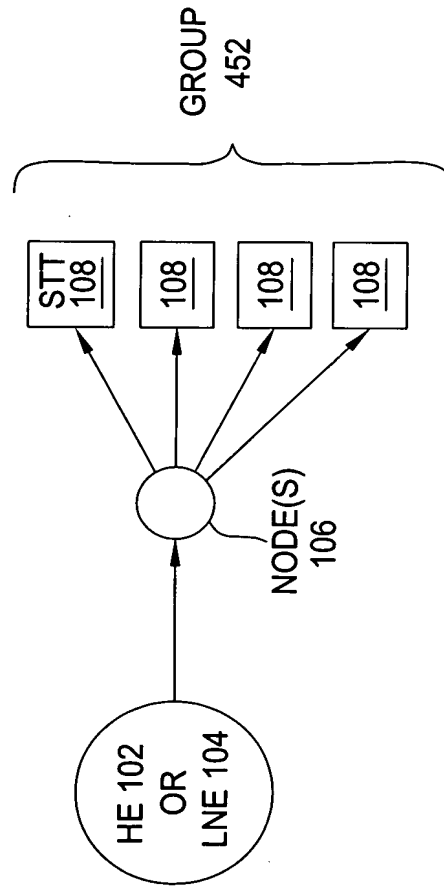
FIG. 3B



400

NARROWCAST ( PUSH ) METHOD

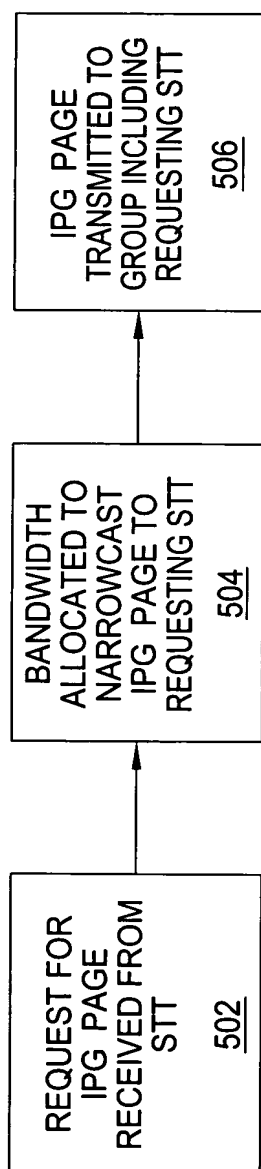
FIG. 4A



450

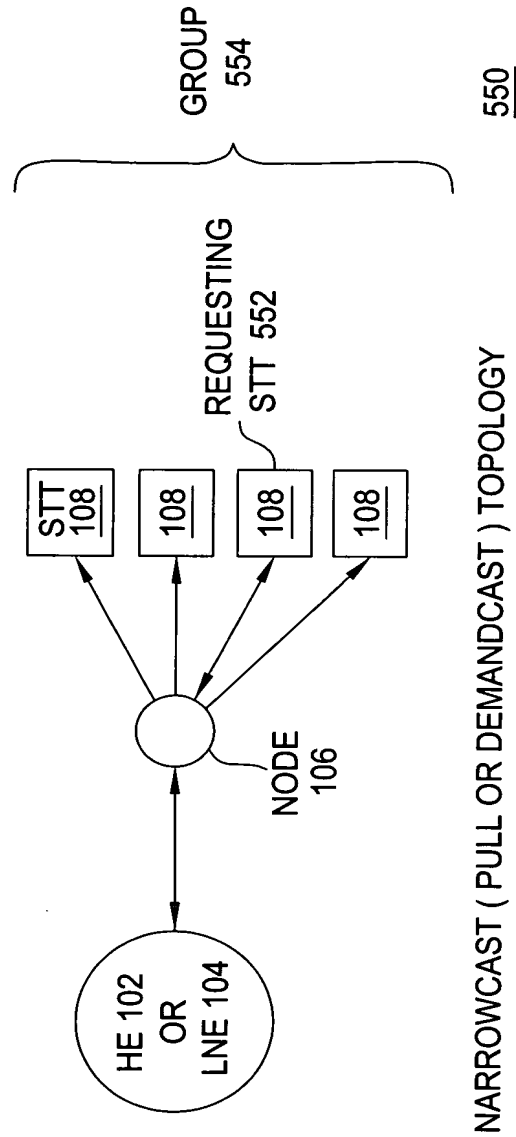
NARROWCAST ( PUSH ) TOPOLOGY

FIG. 4B



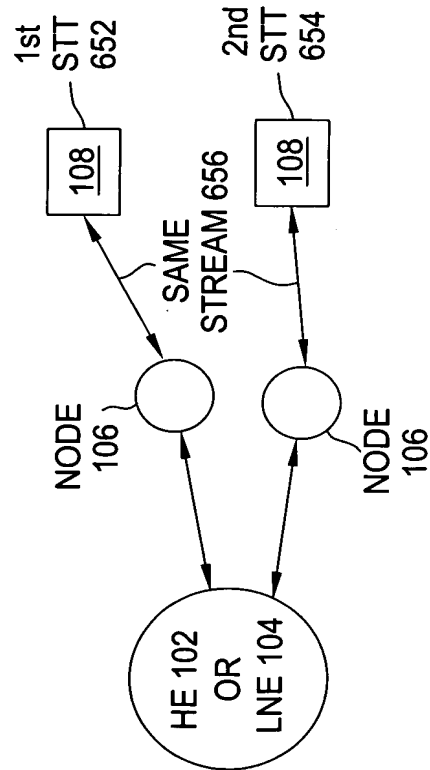
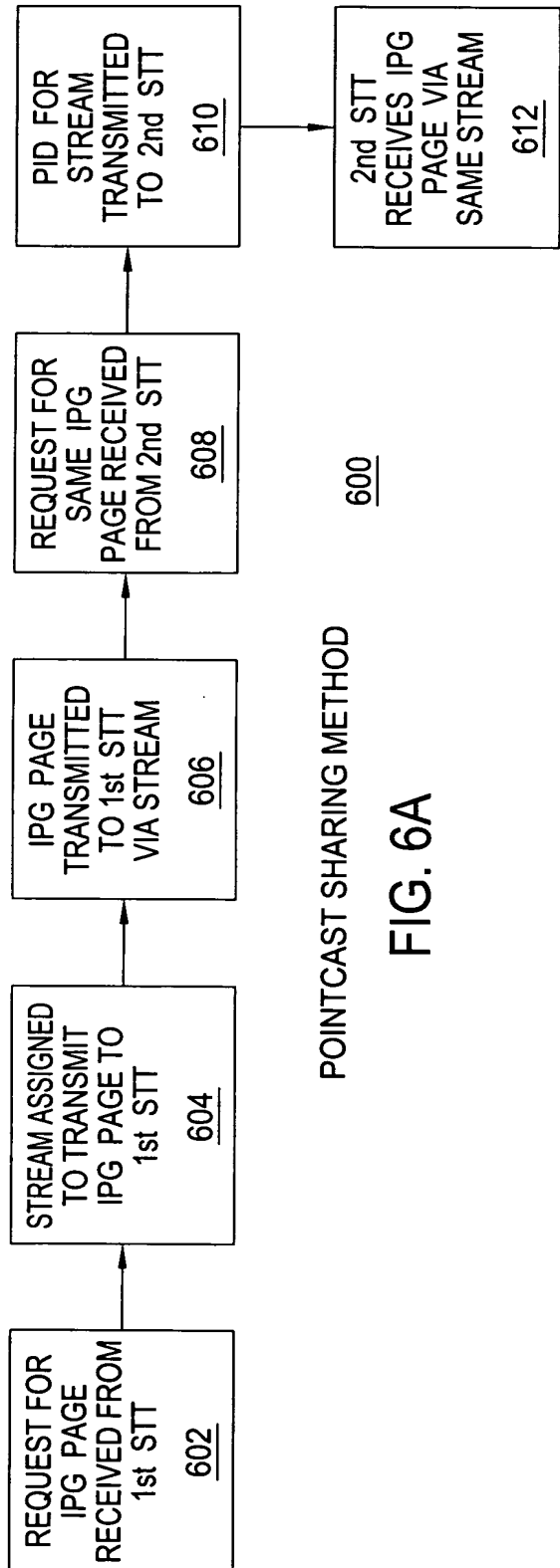
NARROWCAST ( PULL OR DEMANDCAST ) METHOD 500

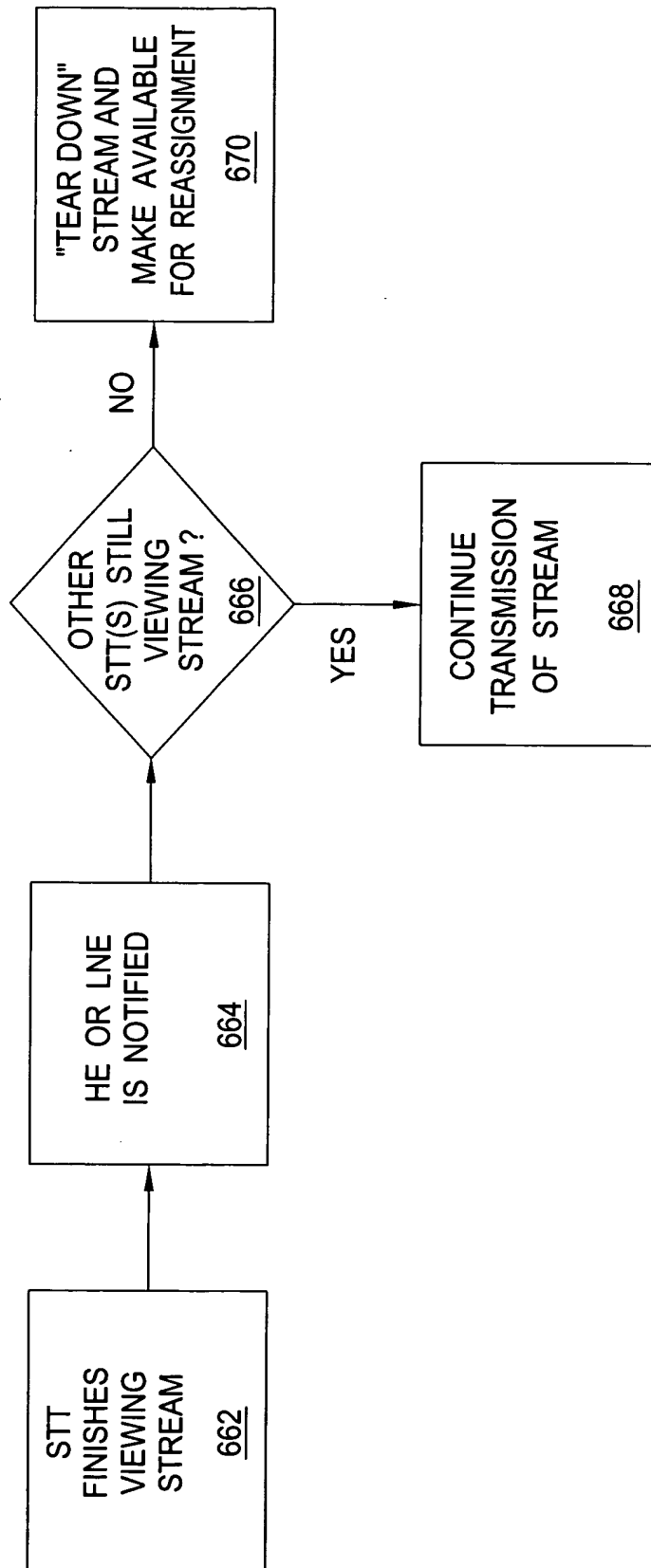
FIG. 5A



NARROWCAST ( PULL OR DEMANDCAST ) TOPOLOGY 550

FIG. 5B





660

FIG. 6C

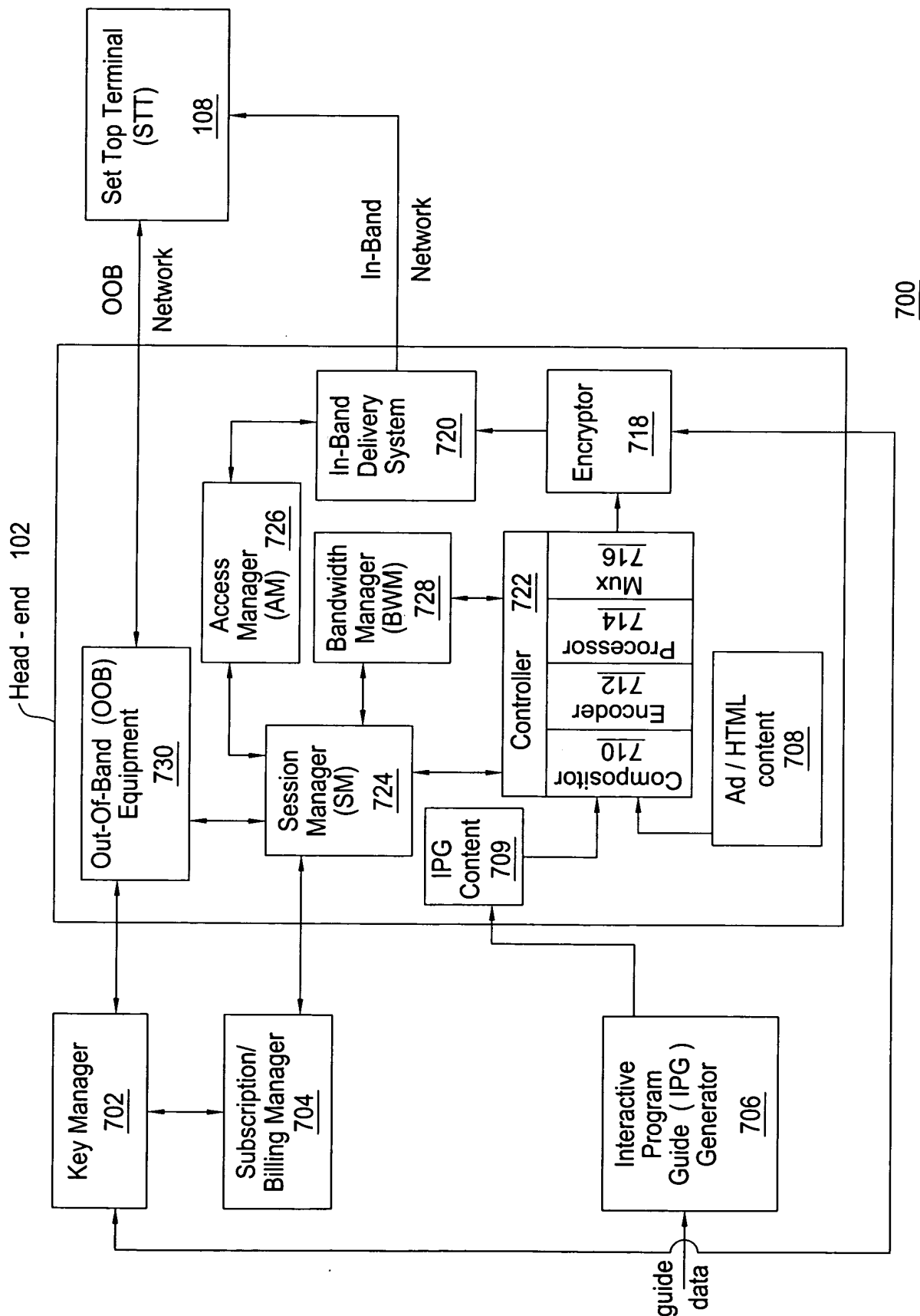
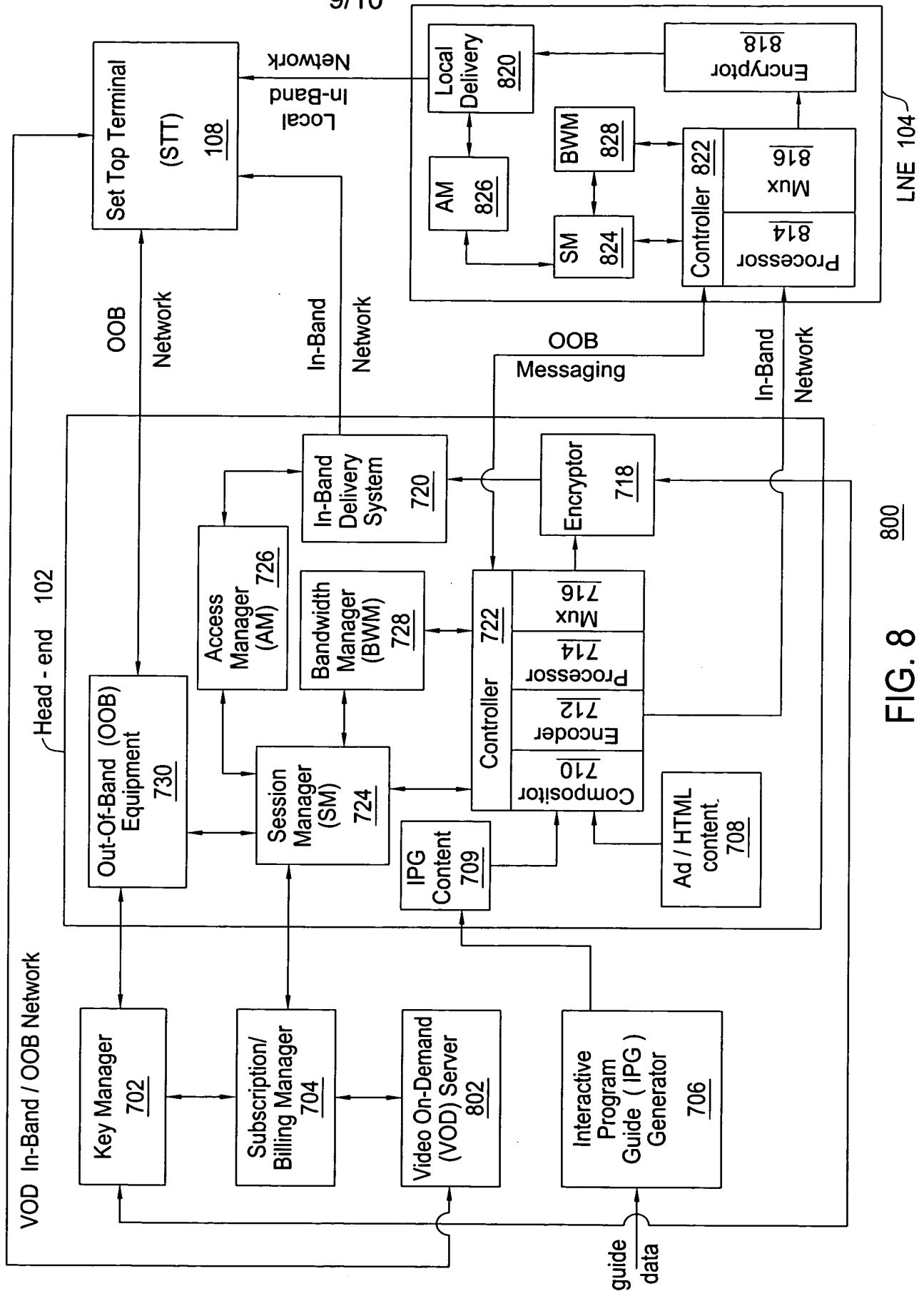


FIG. 7



FIG. 8



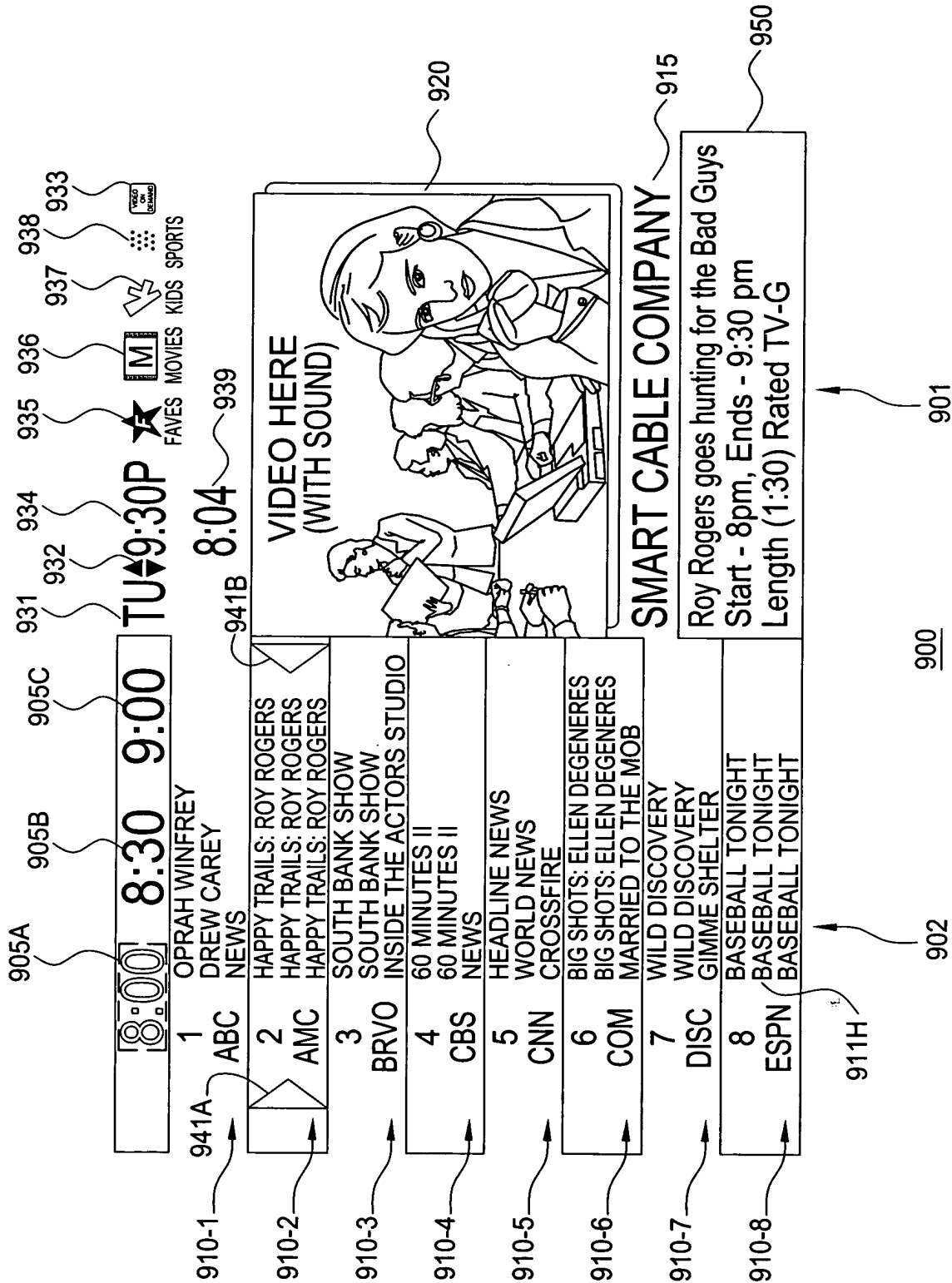


FIG. 9